

ABSTRACT

A superconductive magnetic bearing 22 comprises a stationary bearing portion 23 having an annular superconductor unit 26 provided on a fixed portion 20, and a rotatable bearing
5 portion 24 having annular permanent magnet units 28, 29 provided on a rotary portion 21 so as to be opposed to the superconductor unit 26. The rotary portion 21 is contactlessly supported relative to the fixed portion 20 by the pinning effect of a superconductor constituting the
10 superconductor unit 26. The permanent magnet units 28, 29 each comprise a plurality of permanent magnet members arranged in superposed layers with an insulating layer provided between each adjacent pair of magnet members.